



**PURCHASING ITEM  
FOR  
COUNCIL AGENDA  
Memo No. CP14-034**

**1. Agenda Item Number:**

**26**

**2. Council Meeting Date:**  
September 12, 2013

**TO: MAYOR & COUNCIL**

**3. Date Prepared:** August 23, 2013

**THROUGH: CITY MANAGER**

**4. Requesting Department:** Municipal Utilities

**5. SUBJECT:** Project Agreement with Stantec Consulting, Inc., for the West Chandler Lift Station evaluation.

**6. RECOMMENDATION:** Staff recommends City Council award a Project Agreement to Stantec Consulting, Inc., for the West Chandler Lift Station Evaluation, pursuant to Annual Contract No. EN1311-101, Project No. WW1401-101, in an amount not to exceed \$68,044.

**7. BACKGROUND/DISCUSSION:** West Chandler's sewer collection system currently discharges to the Lone Butte Wastewater Treatment facility, located west of I-10 on the Gila River Indian Community. The Lone Butte Wastewater Treatment facility lease between the Gila River Indian Community and the City of Chandler expires in 2027. To ensure future wastewater flow flexibility, an additional lift station location would be needed to return flows back to City facilities for treatment and reuse. The lift station will receive flow from the Old Pecos Lift Station and transfer this flow to the Kyrene Lift Station.

The project scope includes analysis and modeling of wastewater flows, preparation of a capacity study report, and identification of other possible improvements within the existing wastewater collection system.

The contract completion time is 150 calendar days from Notice to Proceed.

**8. EVALUATION:** This project is being performed under the Annual Permitting, Study, Design, and Post-Design Services for Water and Wastewater facilities, Contract No. EN1311-101 to Stantec Consulting, Inc. The costs proposed for this project have been evaluated by staff and are determined to be reasonable.

**9. FINANCIAL IMPLICATIONS:**

Cost: \$68,044  
Savings: N/A  
Fund Source: N/A

| <u>Acct. No.:</u>    | <u>Fund Name:</u> | <u>Program Name:</u>                    | <u>CIP Funded:</u> | <u>Amount:</u> |
|----------------------|-------------------|---|--------------------|----------------|
| 611.3910.6815.6WW196 | Wastewater Bond   | Collection System Facility Improvements | Yes                | \$68,044       |

**10. PROPOSED MOTION:** Move City Council award a Project Agreement to Stantec Consulting, Inc., for the West Chandler Lift Station Evaluation, pursuant to Annual Contract No. EN1311-101, Project No. WW1401-101, in an amount not to exceed \$68,044.

**ATTACHMENTS:** Project Agreement, Location Map

**APPROVALS**

**11. Requesting Department**

Hairston Hernandez FOR:  
John Knudson, Utilities Engineering Manager

**13. Department Head**

Dave Siegel  
Dave Siegel, Director Municipal Utilities

**12. Transportation & Development**

Hairston Hernandez FOR:  
Bob Fortier, Capital Projects Manager

**14. City Manager**

Rich Dlugas  
Rich Dlugas, City Manager

**PROJECT AGREEMENT  
PURSUANT TO ANNUAL CONTRACT NO. EN1311-101**

**PROJECT AGREEMENT NO: WW1401-101**

This PROJECT AGREEMENT is made this \_\_\_\_\_ day of \_\_\_\_\_, 2013, by and between the City of Chandler, a municipal corporation (hereinafter referred to as "CITY") and Stantec Consulting, Inc., an Arizona corporation (hereinafter referred to as "Annual Consultant") and is a project agreement entered into pursuant to Annual Contract No. EN1311-101.

CITY and Stantec Consulting, Inc., in consideration of the mutual covenants herein set forth, agree as follows:

**ARTICLE 1 - DESCRIPTION OF WORK:**

This project is West Chandler Lift Station, Project Number WW1401-101. The scope of work consists of evaluation of a proposed lift station in west Chandler, all as more particularly set forth in Exhibit A attached hereto and incorporated herein by reference.

The Annual Consultant shall not accept any change of scope, or change in contract provisions, unless issued in writing, as a contract amendment and signed by the Contract Administrator.

**ARTICLE 2 - CONTRACT PRICE:**

CITY shall pay Annual Consultant for completion of the Work in accordance with the Contract Documents a fee not to exceed Sixty Eight Thousand Forty Four Dollars (\$68,044) determined and payable as set forth in Annual Contract EN1311-101 and Exhibit B attached hereto and made a part hereof by reference.

**ARTICLE 3 - CONTRACT TIME:**

The contract time is One Hundred Fifty calendar days and Annual Consultant agrees to complete all work within One Hundred Fifty (150) calendar days of the date CITY issues a Notice to Proceed.

**ARTICLE 4 - GENERAL:**

This Project Agreement is entered into pursuant to Annual Contract No. EN1311-101 and the terms and conditions contained therein are incorporated herein by reference as if set forth in full.

IN WITNESS WHEREOF, the parties hereto have executed this Project Agreement on the day and year first written above.

This Project Agreement will be effective on this \_\_\_\_\_ day of \_\_\_\_\_, 2013.

CITY OF CHANDLER

FOR THE ANNUAL:

\_\_\_\_\_  
MAYOR DATE:

By: My Blacky  
Title: Sr Associate

ADDRESS FOR NOTICE  
City of Chandler  
P.O. Box 4008, Mail Stop 407  
Chandler, AZ 85244-4008  
480-782-3307

ADDRESS FOR NOTICE

\_\_\_\_\_  
Stantec Consulting Services, Inc.  
8211 S. 48<sup>th</sup> St.  
Phoenix, AZ 85044

APPROVED AS TO FORM:

Phone: 602-438-2200  
Fax: 602-431-9582

\_\_\_\_\_  
City Attorney By: [Signature]  
ATTEST:

\_\_\_\_\_  
City Clerk

## **EXHIBIT A SCOPE OF WORK**

The purpose of this project is to provide a capacity study of the sewage collection system serving the western portion of the City of Chandler and modify its current discharge point, which is the Lone Butte WWTP, to the Ocotillo WRF. The capacity study is proposed to include a new lift station which will discharge into the collection system serviced by the Kyrene Lift Station. Once other improvements are completed at the Kyrene Lift Station, the flows would be discharged to the Ocotillo WRF. The remaining sewage flows entering the Old Pecos Lift Station would be discharged to the proposed lift station, which is proposed to be located adjacent to the Roosevelt Water Reservoir Facility.

The following major tasks are planned to be completed as part of this project:

- Obtain and review all data from the City of Chandler related to the sewer service area. This includes as-builts, CAD files, master plan documents, sewer model utilized within the master plan, existing operational data, and other available documentation. To supplement the data collection, limited utility potholing is anticipated to be completed. To identify existing utility easements within the planned improvement area, property title reports are planned to be obtained.
- Evaluate the existing sewer modeling created for the service area and revise the sewer basin delineations to convey flows from the Old Pecos Lift Station to the Kyrene Lift Station. The sewer modeling will utilize the existing planned future development in the service area. No modifications to the planned future development within the service area are anticipated.
- Planned improvements require a new lift station and force main to be installed on the north side of the Loop 202. Preliminary capacity sizing will be completed for the planned new lift station and revising the capacity of the Old Pecos Lift Station due to the revised basin delineation.
- Identify improvements within the existing sewage collection system, existing Old Pecos Lift Station, new lift station, new force mains, and provide opinions of probable cost to complete the improvements.
- Provide a capacity study summarizing the details of the improvements required to convey flows from the Old Pecos Lift Station to the Kyrene Lift Station.
- The project is planned to take four (4) months to complete once the notice to proceed is given.

Specific services not included in this Scope are as follows:

- Surveying services. It is assumed no surveying services are required to complete the project. Existing available CAD files or GIS files will be provided by the Owner for use in the preparation of the project documents.
- Geotechnical services. No geotechnical services are planned to be completed.
- Permitting services. No permitting services are planned to be completed during this project.
- Pipe Condition Assessment services. No pipe condition assessment services are planned to be completed during this project. The City will provide available pipe condition assessments previously completed.
- Construction document preparation. No construction documents are planned to be completed during the project that can be utilized to obtain a construction permit or for bidding purposes.

The engineering services to be provided under this Project are as follows:

## **TASK 100 PROJECT MEETINGS**

**Subtask 101 Project Meetings.** Attend project meetings with the Owner to provide updates as required through the course of the project. Four (4) project meetings are assumed to be completed during the course of the project. Annual Consultant shall provide meeting minutes of each meeting and distributed to the attendees.

## **TASK 200 DATA COLLECTION AND MODEL ANALYSIS**

Data collection and model analysis will be provided under this task.

**Subtask 201 Data Collection and Review.** Annual Consultant shall obtain and review all data from the City of Chandler related to the sewer service area. This includes collection system as-builts, lift station as-builts, available CAD files, master plan documents, sewer model utilized within the master plan, existing operational data, and other documentation provided by the Owner. In addition, utility potholing will be completed to verify the location of some utilities and property title reports will be obtained to verify the existence of existing utility easements that may be utilized as part of proposed facility improvements.

**Subtask 202 Sewer Model Analysis.** As part of the latest master plan completed for the City of Chandler, a sewer collection system hydraulic model was created. An evaluation of the existing sewer model, utilizing the revised collection system discharges, will be inputted into the model and results analyzed. It is assumed the sewer collection system model is compatible with SewerCAD.

## **TASK 300 LIFT STATION CAPACITY STUDY**

Preparation of the capacity study will be provided under this task.

**Subtask 301 Preliminary Capacity Study.** The results of the sewer collection modeling, evaluation of the collection system improvements, evaluation of the lift station siting, results of the preliminary sizing for the planned sewage lift station, and providing opinions of probable cost will be summarized within a technical report. Five (5) copies of the preliminary report shall be distributed to the Owner for review and comment.

**Subtask 302 Preliminary Capacity Study Response to Comments.** Provide responses to comments received during the review of the preliminary report. Comments will be compiled from all reviewers and a reply provided in a single response letter.

**Subtask 303 Final Capacity Study.** Based upon the comments received, the preliminary report shall be modified and finalized. Five (5) copies of the final report shall be distributed to the Owner.

# **EXHIBIT B FEE SCHEDULE**

| TASK NO. | TASK DESCRIPTION                                | PERSONNEL AND RATE |                 |                  |                 |                     |              | TOTAL LABOR HOURS | TOTAL LABOR COST |
|----------|---|--------------------|-----------------|------------------|-----------------|---------------------|--------------|-------------------|------------------|
|          |   | Principal (QA/QC)  | Project Manager | Project Engineer | Design Engineer | Senior CAD Designer | Admin. Staff |                   |                  |
|          |   | \$231              | \$167           | \$156            | \$113           | \$104               | \$95         |                   |                  |
| 100      | Project Meetings                                |                    |                 |                  |                 |                     |              |                   |                  |
| 101      | Project Meetings                                |                    | 24              | 16               |                 |                     | 8            | 48                | \$7,264          |
|          | Subtotal - Project Meetings                     | 0                  | 24              | 16               | 0               | 0                   | 8            | 48                | \$7,264          |
| 200      | Data Collection and Model Analysis              |                    |                 |                  |                 |                     |              |                   |                  |
| 201      | Data Collection and Review                      |                    | 16              | 48               | 8               |                     |              | 72                | \$11,064         |
| 202      | Sewer Model Analysis                            |                    | 16              | 32               |                 |                     |              | 48                | \$7,664          |
|          | Subtotal - Data Collection and Model Analysis   | 0                  | 32              | 80               | 8               | 0                   | 0            | 120               | \$18,728         |
| 300      | Lift Station Capacity Study                     |                    |                 |                  |                 |                     |              |                   |                  |
| 301      | Preliminary Capacity Study                      |                    | 40              | 80               | 24              | 16                  | 4            | 164               | \$23,916         |
| 302      | Preliminary Capacity Study Response to Comments |                    | 8               | 16               |                 |                     |              | 24                | \$3,832          |
| 303      | Final Capacity Study                            |                    | 8               | 24               | 16              |                     | 2            | 50                | \$7,078          |
|          | Subtotal - Lift Station Capacity Study          | 0                  | 56              | 120              | 40              | 16                  | 6            | 238               | \$34,826         |
|          | TOTAL LABOR HOURS                               | 0                  | 112             | 216              | 48              | 16                  | 14           | 406               |                  |
|          | TOTAL LABOR COST                                | \$0                | \$18,704        | \$33,696         | \$5,424         | \$1,664             | \$1,330      |                   | \$60,818         |

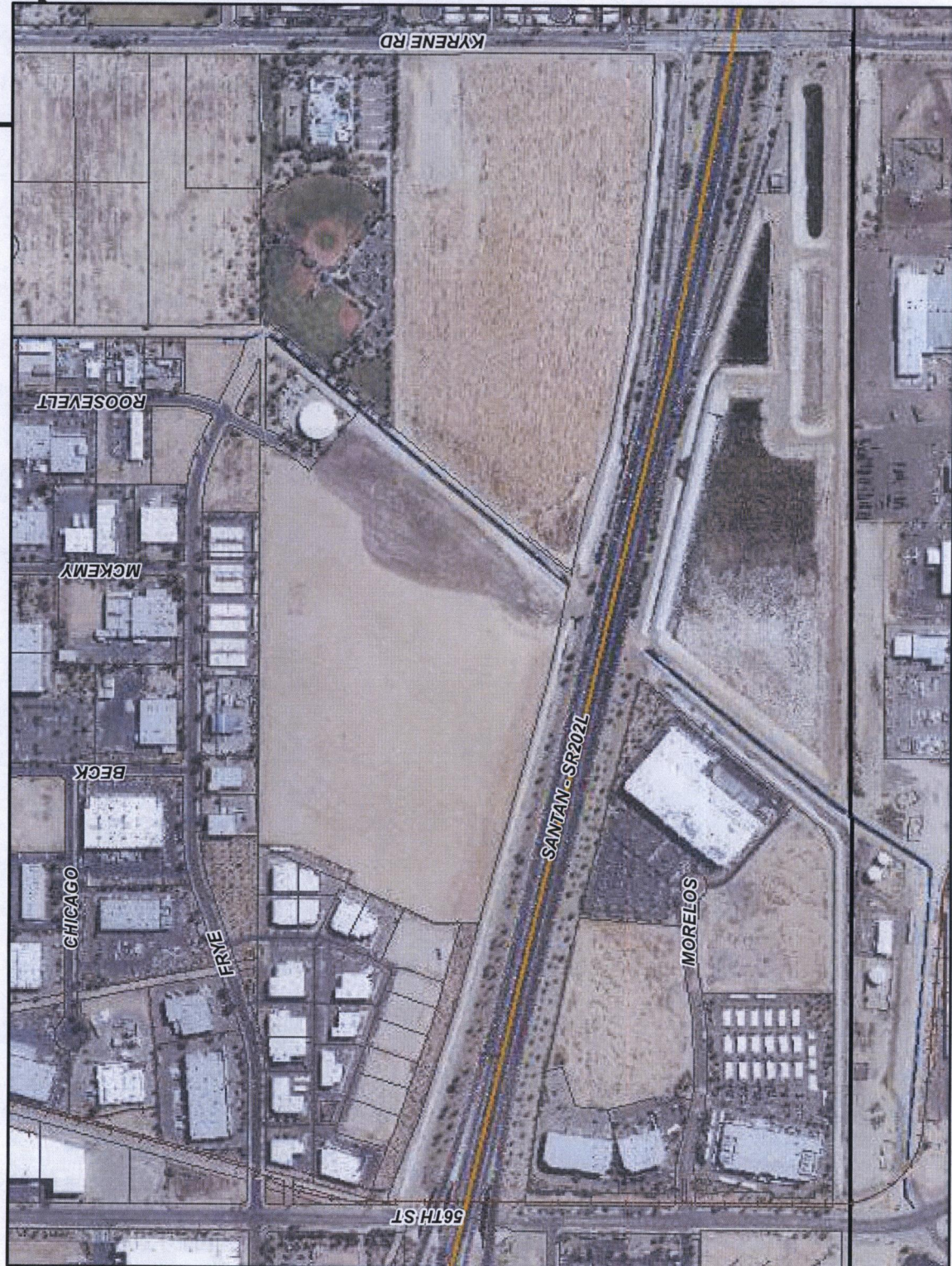
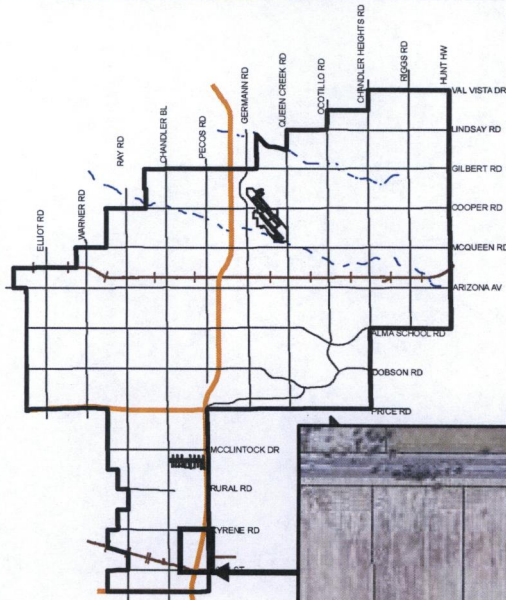
| TASK NO.         | EXPENSE DESCRIPTIONS            | Units | Total Units | Cost / Unit | TOTAL    |
|------------------|---------------------------------|-------|-------------|-------------|----------|
| 201              | Utility Potholing               | EA    | 6           | \$ 721      | \$ 4,326 |
| 201              | Property Title Report Allowance | LS    | 1           | \$ 2,000    | \$ 2,000 |
| 300              | Printing, Reproduction          | LS    | 1           | \$ 300      | \$ 300   |
| 100, 200 and 300 | Mileage and Vehicle Expense     | LS    | 1           | \$ 600      | \$ 600   |
|                  | TOTAL EXPENSE COST              |       |             |             | \$7,226  |

|                    |          |
|--------------------|----------|
| TOTAL LABOR COST   | \$60,818 |
| TOTAL EXPENSE COST | \$7,226  |
| TOTAL FEE          | \$68,044 |





# WEST CHANDLER LIFT STATION EVALUATION PROJECT NO. WW1401-101



MEMO NO. CP14-034

